

Completed Return-On-Investment Project Case Study



United States Department of Energy
Office of Environmental Management
Fact Sheet

Containment Fabrication Facility Savannah River Site

Original Problem

SRS uses vendor provided, standard glovebags to enclose the contaminated material so workers would not have to wear protective clothings while working with them. When the size of the contaminated equipment does not allow use of the standard-sized containments/glovebags, large containment huts are required. Workers must wear portective equipment while working in the huts (contaminated areas). This generates more waste and requires more in-field labor for construction of the hut/containment.



The ROI Project Solution

SRS designed and built the Containment Fabrication Facility to provide customized glovebags/containments for contaminated material that wouldn't fit the standard glovebags. This facility contains plastic sealers, sewing machines, and other equipment required for designing and manufacturing custom-made containments

DOE Monetary Benefits

Cost	\$300,000
Lifecycle Savings	\$10,000,000
Return on Investment	320 %

Value Of Improvement

This facility saves \$1 million and avoided 800 ft³ LLW and 210 ft³ TRU, annually. Worker safety is improved by eliminating the need to work in contaminated areas.

Benefits At-A-Glance

- Expedite in-field construction and reduce installation labor.
- Reducing job waste and associated cleanup waste and labor.
- Reduce risk to workers

Lifecycle Waste Reduction

Life Cycle Waste Reduction	~ 300 m3
Operation Commencement Date	12/99
Project Useful Life (Years)	10 years

Building Upon An Office of Science and Technology Demonstration Success

Containment Fabrication Facility

Savannah River Site

Summary Data

ROI Priority Area:	New Waste Generation
ROI Project Type:	Source Reduction
Project Cost:	\$300,000
Lifecycle Savings:	\$10,000,000
Implementing Group:	EM, SRS Nuclear Materials Stabilization Division
Benefiting Group:	EM, SRS Site
Useful Life Years:	10 Years
Return On Investment:	320 %
Lifecycle Waste Reduction:	300 m3
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